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**Database:**

US Pre-Grant Publication Full-Text Database  
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**Search:**

### Search History

**DATE: Tuesday, March 23, 2004** [Printable Copy](#) [Create Case](#)**Set Name Query**  
**side by side****Hit Count Set Name**  
**result set***DB=USPT; PLUR=YES; OP=OR*

<u>L7</u>	L6 and l5	20	<u>L7</u>
<u>L6</u>	carney.in.	747	<u>L6</u>
<u>L5</u>	L1 adj cartilage regeneration	47217	<u>L5</u>
<u>L4</u>	l1 and cartilage regeneration	47271	<u>L4</u>
<u>L3</u>	l1 and (TP508)	0	<u>L3</u>
<u>L2</u>	TP508	0	<u>L2</u>
<u>L1</u>	PLGA	744	<u>L1</u>

END OF SEARCH HISTORY

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### Search Results - Record(s) 1 through 10 of 20 returned.

1. Document ID: US 6630572 B1

L7: Entry 1 of 20

File: USPT

Oct 7, 2003

US-PAT-NO: 6630572

DOCUMENT-IDENTIFIER: US 6630572 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Thrombin derived polypeptides: compositions and methods for use

DATE-ISSUED: October 7, 2003

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Carney; Darrell H.	Dickinson	TX		
Glenn; Kevin C.	Maryland Heights	MO		

US-CL-CURRENT: 530/327; 530/324, 530/325, 530/326, 530/328

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Detailed Description</a>	<a href="#">Abstract</a>	<a href="#">Claims</a>	<a href="#">KOMC</a>	<a href="#">Drawn Dep</a>
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2. Document ID: US 6627731 B1

L7: Entry 2 of 20

File: USPT

Sep 30, 2003

US-PAT-NO: 6627731

DOCUMENT-IDENTIFIER: US 6627731 B1

TITLE: Thrombin derived polypeptides; compositions and methods for use

DATE-ISSUED: September 30, 2003

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Carney; Darrell H.	Galveston	TX		
Glenn; Kevin C.	St. Louis	MO		

US-CL-CURRENT: 530/330; 424/94.64, 530/324, 530/325, 530/326, 530/327, 530/328,  
530/329

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Detailed Description</a>	<a href="#">Abstract</a>	<a href="#">Claims</a>	<a href="#">KOMC</a>	<a href="#">Drawn Dep</a>
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3. Document ID: US 6436231 B1

L7: Entry 3 of 20

File: USPT

Aug 20, 2002

US-PAT-NO: 6436231

DOCUMENT-IDENTIFIER: US 6436231 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Method and apparatus for crosslinking individualized cellulose fibers

DATE-ISSUED: August 20, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Graef; Peter A.	Tacoma	WA		
Elston; Colin	Gig Harbor	WA		
Olmstead; Fred E.	Tacoma	WA		
Bolstad; Clifford R.	Milton	WA		
Bowns; Mark W.	Auburn	WA		
Hunter; Frank R.	Bellevue	WA		
<u>Carney; Allan R.</u>	Puyallup	WA		

US-CL-CURRENT: 162/9; 162/146[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Description](#) | [Claims](#) | [KIMC](#) | [Drawn De](#) 4. Document ID: US 6342655 B1

L7: Entry 4 of 20

File: USPT

Jan 29, 2002

US-PAT-NO: 6342655

DOCUMENT-IDENTIFIER: US 6342655 B1

TITLE: Plants resistant to WT strains of cucumber mosaic virus

DATE-ISSUED: January 29, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boeshore; Maury L.	Wauconda	IL		
McMaster; J. Russell	Kenosha	WI		
Tricoli; David M.	Davis	CA		
Reynolds; John F.	Davis	CA		
<u>Carney; Kim J.</u>	Davis	CA		

US-CL-CURRENT: 800/280; 435/252.2, 435/252.3, 435/320.1, 435/414, 435/419, 435/430,  
435/469, 435/475, 435/69.1, 536/23.72, 536/24.1, 800/288, 800/294, 800/301,  
800/307, 800/317

Full	Title	Citation	Front	Review	Classification	Date	Reference	Search History	Attachments	Claims	KOMC	Drawn D
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5. Document ID: US 6337431 B1

L7: Entry 5 of 20

File: USPT

Jan 8, 2002

US-PAT-NO: 6337431

DOCUMENT-IDENTIFIER: US 6337431 B1

TITLE: Transgenic plants expressing DNA constructs containing a plurality of genes to impart virus resistance

DATE-ISSUED: January 8, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tricoli; David M	Davis	CA		
<u>Carney</u> ; Kim J.	Davis	CA		
Russell; Paul F.	Portage	MI		
Quemada; Hector D.	Kalamazoo	MI		
McMaster; Russell J.	Kenosha	WI		
Reynolds; John F.	Davis	CA		
Deng; Rosaline Z.	Oceanside	CA		

US-CL-CURRENT: 800/280; 435/320.1, 435/419, 435/468, 435/469, 800/288, 800/294,  
800/301, 800/317

Full	Title	Citation	Front	Review	Classification	Date	Reference	Search History	Attachments	Claims	KOMC	Drawn D
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6. Document ID: US 6127601 A

L7: Entry 6 of 20

File: USPT

Oct 3, 2000

US-PAT-NO: 6127601

DOCUMENT-IDENTIFIER: US 6127601 A

TITLE: Plants resistant to C strains of cucumber mosaic virus

DATE-ISSUED: October 3, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boeshore; Maury L.	Wauconda	IL		
McMaster; Russell J.	Kenosha	WI		
Tricoli; David M.	Davis	CA		
Reynolds; John F.	Davis	CA		
<u>Carney</u> ; Kim J.	Davis	CA		

US-CL-CURRENT: 800/280; 435/252.3, 435/320.1, 435/414, 435/419, 435/430, 435/469,

435/475, 435/69.1, 536/23.72, 800/288, 800/294, 800/301, 800/307, 800/317

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Assignments](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn Ds](#)

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7. Document ID: US 6046384 A

L7: Entry 7 of 20

File: USPT

Apr 4, 2000

US-PAT-NO: 6046384

DOCUMENT-IDENTIFIER: US 6046384 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Papaya ringspot virus NIa protease gene

DATE-ISSUED: April 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McMaster; J. Russell	Kenosha	WI		
Boeshore; Maury L.	Wauconda	IL		
Tricoli; David M.	Davis	CA		
Reynolds; John F.	Davis	CA		
Carney; Kim J.	Davis	CA		
Slichton; Jerry L.	Kalamazoo	MI		
Gonsalves; Dennis	Geneva	NY		

US-CL-CURRENT: 800/279; 435/252.3, 435/320.1, 435/468, 435/469, 536/23.2,  
536/23.72, 536/24.1, 800/288, 800/294

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Assignments](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn Ds](#)

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8. Document ID: US 6015942 A

L7: Entry 8 of 20

File: USPT

Jan 18, 2000

US-PAT-NO: 6015942

DOCUMENT-IDENTIFIER: US 6015942 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Transgenic plants exhibiting heterologous virus resistance

DATE-ISSUED: January 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tricoli; David M	Davis	CA		
Carney; Kim J.	Davis	CA		
Russell; Paul F.	Portage	MI		

US-CL-CURRENT: 800/280; 435/419, 435/468, 800/301, 800/308

h e b b g e e e f e c ef b e

Full	Title	Citation	Front	Review	Classification	Date	Reference	Searcher	Attacher	Claims	KIMC	Drawn
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9. Document ID: US 6005166 A

L7: Entry 9 of 20

File: USPT

Dec 21, 1999

US-PAT-NO: 6005166

DOCUMENT-IDENTIFIER: US 6005166 A

TITLE: Papaya ringspot virus replicase gene

DATE-ISSUED: December 21, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McMaster; J. Russell	Kenosha	WI		
Boeshore; Maury L.	Wauconda	IL		
Tricoli; David M.	Davis	CA		
Reynolds; John F.	Davis	CA		
<u>Carney; Kim J.</u>	Davis	CA		

US-CL-CURRENT: 800/280; 435/320.1, 435/419, 435/469, 435/476, 536/23.72, 800/288,  
800/294, 800/301

Full	Title	Citation	Front	Review	Classification	Date	Reference	Searcher	Attacher	Claims	KIMC	Drawn
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10. Document ID: US 6002072 A

L7: Entry 10 of 20

File: USPT

Dec 14, 1999

US-PAT-NO: 6002072

DOCUMENT-IDENTIFIER: US 6002072 A

TITLE: Coat protein gene for the FLA83 W strain of papaya ringspot virus

DATE-ISSUED: December 14, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McMaster; Russell J.	Kenosha	WI		
Boeshore; Maury L.	Wauconda	IL		
Tricoli; David M.	Davis	CA		
Reynolds; John F.	Davis	CA		
<u>Carney; Kim J.</u>	Davis	CA		
Gonsalves; Dennis	Geneva	NY		

US-CL-CURRENT: 800/301; 435/252.2, 435/252.3, 435/320.1, 435/419, 536/23.72,  
800/280

Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  |  | Claims | KOMC | Draw. De

Terms	Documents
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11. Document ID: US 5998702 A

L7: Entry 11 of 20

File: USPT

Dec 7, 1999

US-PAT-NO: 5998702

DOCUMENT-IDENTIFIER: US 5998702 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Transgenic plants expressing ACC synthase gene

DATE-ISSUED: December 7, 1999

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boeshore; Maury L.	Wauconda	IL		
Deng; Rosaline Z.	Oceanside	CA		
<u>Carney</u> ; Kim J.	Davis	CA		
Ruttencutter; Glen E.	DeForest	WI		
Reynolds; John F.	Davis	CA		

US-CL-CURRENT: 800/306; 435/252.2, 435/252.3, 435/320.1, 435/419, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Text	Claims	KIMC	Drawn	Def
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12. Document ID: US 5941233 A

L7: Entry 12 of 20

File: USPT

Aug 24, 1999

US-PAT-NO: 5941233

DOCUMENT-IDENTIFIER: US 5941233 A

TITLE: Indirect-fired heater with regeneration reclaim rotary heat exchanges

DATE-ISSUED: August 24, 1999

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grinols; Daniel L.	Eagan	MN		
<u>Carney</u> ; Craig L.	South St. Paul	MN		
Prekker; Ronald J.	Independence	MN		

US-CL-CURRENT: 126/110R; 126/116R

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Patentability	Claims	KOMC	Drawn De
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 13. Document ID: US 5877403 A

L7: Entry 13 of 20

File: USPT

Mar 2, 1999

US-PAT-NO: 5877403

DOCUMENT-IDENTIFIER: US 5877403 A

\*\* See image for Certificate of Correction \*\*

TITLE: Papaya ringspot virus protease gene

DATE-ISSUED: March 2, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McMaster; J. Russell	Galesburg	MI		
Boeshore; Maury L.	Kalamazoo	MI		
Tricoli; David M.	Kalamazoo	MI		
Reynolds; John F.	Augusta	MI		
<u>Carney</u> ; Kim J.	Richland	MI		
Slightom; Jerry L.	Kalamazoo	MI		
Gonsalves; Dennis	Geneva	NY		

US-CL-CURRENT: 800/279; 435/252.3, 435/255.2, 435/320.1, 435/419, 435/430,  
536/23.72, 800/301, 800/310

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Patentability	Claims	KOMC	Drawn De
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 14. Document ID: US 5692299 A

L7: Entry 14 of 20

File: USPT

Dec 2, 1997

US-PAT-NO: 5692299

DOCUMENT-IDENTIFIER: US 5692299 A

TITLE: Fiber optic splice closure and associated methods

DATE-ISSUED: December 2, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Daems; Daniel Francois	Gravenwezel			BE
Holman; John Randolph	Atlanta	GA		
Claunch, II; <u>Carney</u> Preston	Cary	NC		
Wilcox; Edward Jackson	McDonald	PA		

US-CL-CURRENT: 29/869; 29/402.09, 29/868

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Searcher	Attacher	Claims	KOMC	Drawn De
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15. Document ID: US 5500412 A

L7: Entry 15 of 20

File: USPT

Mar 19, 1996

US-PAT-NO: 5500412

DOCUMENT-IDENTIFIER: US 5500412 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Thrombin derived polypeptides; compositions and methods for use

DATE-ISSUED: March 19, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Carney; Darrell H.	Dickinson	TX	77539	
Glenn; Kevin C.	Maryland Heights	MO	63043	

US-CL-CURRENT: 514/13; 530/326

Full	Title	Citation	Front	Review	Classification	Date	Reference	Searcher	Attacher	Claims	KOMC	Drawn De
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16. Document ID: US 5479553 A

L7: Entry 16 of 20

File: USPT

Dec 26, 1995

US-PAT-NO: 5479553

DOCUMENT-IDENTIFIER: US 5479553 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Fiber optic splice closure

DATE-ISSUED: December 26, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Daems; Daniel F.	Gravenwezel			BE
Holman; John R.	Atlanta	GA		
Claunch, II; Carney P.	Cary	NC		
Wilcox; Edward J.	McDonald	PA		

US-CL-CURRENT: 385/135

Full	Title	Citation	Front	Review	Classification	Date	Reference	Searcher	Attacher	Claims	KOMC	Drawn De
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17. Document ID: US 5437418 A

L7: Entry 17 of 20

File: USPT

Aug 1, 1995

US-PAT-NO: 5437418

DOCUMENT-IDENTIFIER: US 5437418 A

TITLE: Apparatus for crosslinking individualized cellulose fibers

DATE-ISSUED: August 1, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Graef; Peter A.	Tacoma	WA		
Elston; Colin	Gig Harbor	WA		
Olmstead; Fred E.	Tacoma	WA		
Bolstad; Clifford R.	Milton	WA		
Bowns; Mark W.	Auburn	WA		
Hunter; Frank R.	Bellevue	WA		
<u>Carney; Allan R.</u>	Puyallup	WA		

US-CL-CURRENT: 241/65; 241/152.2[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Geographics](#) [Attachments](#) [Claims](#) [KOMC](#) [Drawn De](#) 18. Document ID: US 5352664 A

L7: Entry 18 of 20

File: USPT

Oct 4, 1994

US-PAT-NO: 5352664

DOCUMENT-IDENTIFIER: US 5352664 A

TITLE: Thrombin derived polypeptides; compositions and methods for use

DATE-ISSUED: October 4, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Carney; Darrell H.</u>	Galveston	TX		
Glenn; Kevin C.	St. Louis	MO		

US-CL-CURRENT: 514/13; 424/94.64, 435/214, 530/326[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Geographics](#) [Attachments](#) [Claims](#) [KOMC](#) [Drawn De](#) 19. Document ID: US 5206200 A

L7: Entry 19 of 20

File: USPT

Apr 27, 1993

US-PAT-NO: 5206200

DOCUMENT-IDENTIFIER: US 5206200 A

h e b b cg b cc e

TITLE: Tin catalysts for hydrolysis of latent amine curing agents

DATE-ISSUED: April 27, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bush; Richard W.	Columbia	MD		
<u>Carney</u> ; Eugene E.	Sykesville	MD		

US-CL-CURRENT: 502/167; 502/170

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Assignee](#) | [Attorney](#) | [Claims](#) | [KOMC](#) | [Drawn By](#)

20. Document ID: US 4983511 A

L7: Entry 20 of 20

File: USPT

Jan 8, 1991

US-PAT-NO: 4983511

DOCUMENT-IDENTIFIER: US 4983511 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Method and kit for detecting live microorganisms in chlorine- or bromine-treated water

DATE-ISSUED: January 8, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Geiger; Jon R.	West Hartford	CT		
<u>Carney</u> ; Jayne F.	Wolcott	CT		
Roberts; Katherine P.	Derby	CT		

US-CL-CURRENT: 435/6; 435/259, 435/29, 435/34, 436/164, 436/172, 436/501, 436/94

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Assignee](#) | [Attorney](#) | [Claims](#) | [KOMC](#) | [Drawn By](#)

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=> s cartilage adj2 PLGA  
L1 0 CARTILAGE ADJ2 PLGA

=> S PLGA

=> S TP508

=> s 13 and 12

-> d. 14. ti abs. iibib.tat

L4 ANSWER 1 OF 11 MEDLINE on STN  
TI Controlled release of an osteogenic peptide from injectable biodegradable polymeric composites.  
AB Poly(D,L-lactic-co-glycolic acid)/poly(ethylene glycol) (**PLGA** /PEG) blend microparticles loaded with the osteogenic peptide **TP508** were added to a mixture of poly(propylene fumarate) (PPF), poly(propylene fumarate)-diacrylate (PPF-DA), and sodium chloride (NaCl) for the fabrication of PPF composite scaffolds that could allow for tissue ingrowth as well as for the controlled release of **TP508** when implanted in an orthopedic defect site. In this study, PPF composites were fabricated and the in vitro release kinetics of **TP508** were determined. **TP508** loading within the **PLGA**/PEG

microparticles, PEG content within the **PLGA**/PEG microparticles, the microparticle content of the PPF composite polymer component, and the leachable porogen initial mass percent of the PPF composites were varied according to a fractional factorial design and the effect of each variable on the release kinetics was determined for up to 28 days. Each composite formulation released **TP508** with a unique release profile. The initial release (release through day 1) of the **PLGA**/PEG microparticles was reduced upon inclusion in the PPF composite formulations. Day 1 normalized cumulative mass release from PPF composites ranged from 0.14+/-0.01 to 0.41+/-0.01, whereas the release from **PLGA**/PEG microparticles ranged from 0.31+/-0.02 to 0.58+/-0.01. After 28 days, PPF composites released 53+/-4% to 86+/-2% of the entrapped peptide resulting in cumulative mass releases ranging from 0.14+/-0.01 microg **TP508**/mm(3) scaffold to 2.46+/-0.05 microg **TP508**/mm(3) scaffold. The results presented here demonstrate that PPF composites can be used for the controlled release of **TP508** and that alterations in the composite's composition can lead to modulation of the **TP508** release kinetics. These composites can be used to explore the effects varied release kinetics and dosages on the formation of bone *in vivo*.

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ACCESSION NUMBER: 2003004378 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 12468217  
TITLE: Controlled release of an osteogenic peptide from injectable biodegradable polymeric composites.  
AUTHOR: Hedberg Elizabeth L; Tang Andrew; Crowther Roger S; Carney Darrell H; Mikos Antonios G  
CORPORATE SOURCE: Department of Bioengineering, Rice University, PO Box 1892, MS-142, Houston, TX 77251-1892, USA.  
CONTRACT NUMBER: R01-AR44381 (NIAMS)  
R01-DE13031 (NIDCR)  
T32-GM08362 (NIGMS)  
SOURCE: Journal of controlled release : official journal of the Controlled Release Society, (2002 Dec 5) 84 (3) 137-50.  
Journal code: 8607908. ISSN: 0168-3659.  
PUB. COUNTRY: Netherlands  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals; Space Life Sciences  
ENTRY MONTH: 200306  
ENTRY DATE: Entered STN: 20030105  
Last Updated on STN: 20030628  
Entered Medline: 20030627

L4 ANSWER 2 OF 11 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
TI Controlled release of an osteogenic peptide from injectable biodegradable polymeric composites.  
AB Poly(D,L-lactic-co-glycolic acid)/poly(ethylene glycol) (**PLGA**/PEG) blend microparticles loaded with the osteogenic peptide **TP508** were added to a mixture of poly(propylene fumarate) (PPF), poly(propylene fumarate)-diacrylate (PPF-DA), and sodium chloride (NaCl) for the fabrication of PPF composite scaffolds that could allow for tissue ingrowth as well as for the controlled release of **TP508** when implanted in an orthopedic defect site. In this study, PPF composites were fabricated and the *in vitro* release kinetics of **TP508** were determined. **TP508** loading within the **PLGA**/PEG microparticles, PEG content within the **PLGA**/PEG microparticles, the microparticle content of the PPF composite polymer component, and the leachable porogen initial mass percent of the PPF composites were varied according to a fractional factorial design and the effect of each variable on the release kinetics was determined for up to 28 days. Each composite formulation released **TP508** with a unique release profile. The initial release (release through day 1) of the **PLGA**/PEG microparticles was reduced upon inclusion in the PPF composite

formulations. Day 1 normalized cumulative mass release from PPF composites ranged from  $0.14\pm0.01$  to  $0.41\pm0.01$ , whereas the release from **PLGA**/PEG microparticles ranged from  $0.31\pm0.02$  to  $0.58\pm0.01$ .

After 28 days, PPF composites released 53 $\pm$ 4% to 86 $\pm$ 2% of the entrapped peptide resulting in cumulative mass releases ranging from  $0.14\pm0.01$   $\mu$ g **TP508/mm<sup>3</sup>** scaffold to  $2.46\pm0.05$   $\mu$ g **TP508/mm<sup>3</sup>** scaffold.

The results presented here demonstrate that PPF composites can be used for the controlled release of **TP508** and that alterations in the composite's composition can lead to modulation of the **TP508** release kinetics. These composites can be used to explore the effects varied release kinetics and dosages on the formation of bone *in vivo*.

ACCESSION NUMBER: 2003:121275 BIOSIS

DOCUMENT NUMBER: PREV200300121275

TITLE: Controlled release of an osteogenic peptide from injectable biodegradable polymeric composites.

AUTHOR(S): Hedberg, Elizabeth L.; Tang, Andrew; Crowther, Roger S.; Carney, Darrell H.; Mikos, Antonios G. [Reprint Author]

CORPORATE SOURCE: Department of Bioengineering, Rice University, P.O. Box 1892, MS-142, Houston, TX, 77251-1892, USA  
mikos@rice.edu

SOURCE: Journal of Controlled Release, (5 December 2002) Vol. 84, No. 3, pp. 137-150. print.  
ISSN: 0168-3659 (ISSN print).

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 5 Mar 2003  
Last Updated on STN: 5 Mar 2003

L4 ANSWER 3 OF 11 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

TI Controlled release of an osteogenic peptide from injectable biodegradable polymeric composites.

AB Poly(D,L-lactic-co-glycolic acid)/poly(ethylene glycol) (**PLGA**/PEG) blend microparticles loaded with the osteogenic peptide **TP508** were added to a mixture of poly(propylene fumarate) (PPF), poly(propylene fumarate)-diacrylate (PPF-DA), and sodium chloride (NaCl) for the fabrication of PPF composite scaffolds that could allow for tissue ingrowth as well as for the controlled release of **TP508** when implanted in an orthopedic defect site. In this study, PPF composites were fabricated and the *in vitro* release kinetics of **TP508** were determined. **TP508** loading within the **PLGA**/PEG microparticles, the microparticle content of the PPF composite polymer component, and the leachable porogen initial mass percent of the PPF composites were varied according to a fractional factorial design and the effect of each variable on the release kinetics was determined for up to 28 days. Each composite formulation released **TP508** with a unique release profile. The initial release (release through day 1) of the **PLGA**/PEG microparticles was reduced upon inclusion in the PPF composite formulations. Day 1 normalized cumulative mass release from PPF composites ranged from  $0.14\pm0.01$  to  $0.41\pm0.01$ , whereas the release from **PLGA**/PEG microparticles ranged from  $0.31\pm0.02$  to  $0.58\pm0.01$ . After 28 days, PPF composites released 53 $\pm$ 4% to 86 $\pm$ 2% of the entrapped peptide resulting in cumulative mass releases ranging from  $0.14\pm0.01$   $\mu$ g **TP508/mm<sup>3</sup>** scaffold to  $2.46\pm0.05$   $\mu$ g **TP508/mm<sup>3</sup>** scaffold. The results presented here demonstrate that PPF composites can be used for the controlled release of **TP508** and that alterations in the composite's composition can lead to modulation of the **TP508** release kinetics. These composites can be used to explore the effects varied release kinetics and dosages on the formation of bone *in vivo*. .COPYRGT. Elsevier Science B.V. All rights reserved.

ACCESSION NUMBER: 2002446418 EMBASE

TITLE: Controlled release of an osteogenic peptide from injectable biodegradable polymeric composites.

AUTHOR: Hedberg E.L.; Tang A.; Crowther R.S.; Carney D.H.; Mikos A.G.  
CORPORATE SOURCE: A.G. Mikos, Department of Bioengineering, Rice University, MS-142, P.O. Box 1892, Houston, TX 77251-1892, United States. mikos@rice.edu  
SOURCE: Journal of Controlled Release, (5 Dec 2002) 84/3 (137-150).  
Refs: 39  
ISSN: 0168-3659 CODEN: JCREEC  
PUBLISHER IDENT.: S 0168-3659(02)00261-4  
COUNTRY: Netherlands  
DOCUMENT TYPE: Journal; Article  
FILE SEGMENT: 037 Drug Literature Index  
039 Pharmacy  
LANGUAGE: English  
SUMMARY LANGUAGE: English

L4 ANSWER 4 OF 11 USPATFULL on STN

TI Stimulation of cartilage growth with agonists of the non-proteolytically activated thrombin receptor  
AB Disclosed is a method of stimulating cartilage growth, repair or regeneration at a site in a subject in need of such growth, repair or regeneration. The method comprises the step of administering a therapeutically effective amount of an agonist of the non-proteolytically activated thrombin receptor to the site.

Also disclosed is a method of stimulating the proliferation and expansion of chondrocytes in vitro. The method comprises culturing chondrocytes in the presence of a stimulating amount of an NPAR agonist.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:344424 USPATFULL  
TITLE: Stimulation of cartilage growth with agonists of the non-proteolytically activated thrombin receptor  
INVENTOR(S): Carney, Darrell H., Dickinson, TX, UNITED STATES  
Crowther, Roger S., League City, TX, UNITED STATES  
Stiernberg, Janet, Paris, TX, UNITED STATES  
Bergmann, John, Galveston, TX, UNITED STATES  
PATENT ASSIGNEE(S): Univ. of Texas System, Board of Regents, Austin, TX, UNITED STATES, 78701 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002198154	A1	20021226
APPLICATION INFO.:	US 2002-50688	A1	20020116 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-909348, filed on 19 Jul 2001, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-219800P	20000720 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HAMILTON, BROOK, SMITH & REYNOLDS, P.C., 530 VIRGINIA ROAD, P.O. BOX 9133, CONCORD, MA, 01742-9133	
NUMBER OF CLAIMS:	28	
EXEMPLARY CLAIM:	1	
LINE COUNT:	862	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 11 USPATFULL on STN

TI Methods of therapy with thrombin derived peptides  
AB The present invention relates to a method for promoting cardiac tissue repair comprising administering to the cardiac tissue a therapeutically

effective amount of an angiogenic thrombin derivative peptide and/or inhibiting or reducing vascular occlusion or restenosis. The invention also relates to methods of stimulating revascularization. In yet another embodiment, the invention relates to the use of thrombin derivative peptides in the manufacture of a medicament for the methods described herein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:330250 USPATFULL  
TITLE: Methods of therapy with thrombin derived peptides  
INVENTOR(S): Carney, Darrell H., Dickinson, TX, UNITED STATES  
PATENT ASSIGNEE(S): Univ. of Texas System, Board of Regents, Austin, TX, UNITED STATES, 78701 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002187933	A1	20021212
APPLICATION INFO.:	US 2002-50611	A1	20020116 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-904090, filed on 12 Jul 2001, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-217583P	20000712 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HAMILTON, BROOK, SMITH & REYNOLDS, P.C., 530 VIRGINIA ROAD, P.O. BOX 9133, CONCORD, MA, 01742-9133	
NUMBER OF CLAIMS:	28	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	716	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 6 OF 11 USPATFULL on STN  
TI Stimulation of bone growth with thrombin peptide derivatives  
AB Disclosed is a method of stimulating bone growth at a site in a subject in need of osteoinduction. The method comprises the step of administering a therapeutically effective amount of an agonist of the non-proteolytically activated thrombin receptor to the site.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:322044 USPATFULL  
TITLE: Stimulation of bone growth with thrombin peptide derivatives  
INVENTOR(S): Carney, Darrell H., Dickinson, TX, UNITED STATES  
Crowther, Roger S., League City, TX, UNITED STATES  
Simmons, David J., St. Louis, MO, UNITED STATES  
Yang, Jinping, Galveston, TX, UNITED STATES  
Redin, William R., Dickinson, TX, UNITED STATES  
PATENT ASSIGNEE(S): Univ. of Texas System, Board of Regents, Austin, TX, UNITED STATES, 78701 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002182205	A1	20021205
APPLICATION INFO.:	US 2002-50692	A1	20020116 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-909122, filed on 19 Jul 2001, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-219300P	20000719 (60)
DOCUMENT TYPE:	Utility	

FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C., 530 VIRGINIA ROAD, P.O. BOX 9133, CONCORD, MA, 01742-9133  
NUMBER OF CLAIMS: 46  
EXEMPLARY CLAIM: 1  
LINE COUNT: 846  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 7 OF 11 USPATFULL on STN  
TI Stimulation of bone growth with thrombin peptide derivatives  
AB Disclosed is a method of stimulating bone growth at a site in a subject in need of osteoinduction. The method comprises the step of administering a therapeutically effective amount of an agonist of the non-proteolytically activated thrombin receptor to the site.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:236005 USPATFULL  
TITLE: Stimulation of bone growth with thrombin peptide derivatives  
INVENTOR(S): Carney, Darrell H., Dickinson, TX, UNITED STATES  
Crowther, Roger S., League City, TX, UNITED STATES  
Simmons, David J., St. Louis, MO, UNITED STATES  
Yang, Jinping, Galveston, TX, UNITED STATES  
Redin, William R., Dickinson, TX, UNITED STATES  
PATENT ASSIGNEE(S): The Board of Regents, The University of TX. System (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002128202	A1	20020912
APPLICATION INFO.:	US 2001-909122	A1	20010719 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-219300P	20000719 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Carolyn S. Elmore, HAMILTON, BROOK, SMITH & REYNOLDS, P.C., Two Militia Drive, Lexington, MA, 02421-4799	
NUMBER OF CLAIMS:	37	
EXEMPLARY CLAIM:	1	
LINE COUNT:	797	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 8 OF 11 USPATFULL on STN  
TI Methods of therapy with thrombin derived peptides  
AB The present invention relates to a method for promoting cardiac tissue repair comprising administering to the cardiac tissue a therapeutically effective amount of an angiogenic thrombin derivative peptide and/or inhibiting or reducing vascular occlusion or restenosis. The invention also relates to methods of stimulating revascularization. In yet another embodiment, the invention relates to the use of thrombin derivative peptides in the manufacture of a medicament for the methods described herein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
ACCESSION NUMBER: 2002:119864 USPATFULL  
TITLE: Methods of therapy with thrombin derived peptides  
INVENTOR(S): Carney, Darrell H., Dickinson, TX, UNITED STATES  
PATENT ASSIGNEE(S): The Board of Regents, The University of Texas System (U.S. corporation)

	NUMBER	KIND	DATE

PATENT INFORMATION: US 2002061852 A1 20020523  
APPLICATION INFO.: US 2001-904090 A1 20010712 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-217583P	20000712 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Carolyn S. Elmore, HAMILTON, BROOK, SMITH & REYNOLDS, P.C., Two Militia Drive, Lexington, MA, 02421-4799	
NUMBER OF CLAIMS:	22	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	683	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 9 OF 11 USPATFULL on STN  
TI Stimulation of cartilage growth with agonists of the non-proteolytically activated thrombin receptor  
AB Disclosed is a method of stimulating cartilage growth, repair or regeneration at a site in a subject in need of such growth, repair or regeneration. The method comprises the step of administering a therapeutically effective amount of an agonist of the non-proteolytically activated thrombin receptor to the site.

Also disclosed is a method of stimulating the proliferation and expansion of chondrocytes in vitro. The method comprises culturing chondrocytes in the presence of a stimulating amount of an NPAR agonist.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:78716 USPATFULL  
TITLE: Stimulation of cartilage growth with agonists of the non-proteolytically activated thrombin receptor  
INVENTOR(S): Carney, Darrell H., Dickinson, TX, UNITED STATES  
Crowther, Roger S., League City, TX, UNITED STATES  
Stiernberg, Janet, Paris, TX, UNITED STATES  
Bergmann, John, Galveston, TX, UNITED STATES  
PATENT ASSIGNEE(S): The Board of Regents, The University of Texas System (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002042373	A1	20020411
APPLICATION INFO.:	US 2001-909348	A1	20010719 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-219800P	20000720 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Carolyn S. Elmore, HAMILTON, BROOK, SMITH & REYNOLDS, P.C., Two Militia Drive, Lexington, MA, 02421-4799	
NUMBER OF CLAIMS:	21	
EXEMPLARY CLAIM:	1	
LINE COUNT:	836	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 10 OF 11 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
TI Stimulation of bone growth and cartilage formation in e.g. bone graft and arthritic joints involves administration of a thrombin derivative peptide.  
AN 2003-721552 [68] WPIDS  
AB WO2003061690 A UPAB: 20031022  
NOVELTY - Stimulating bone growth, comprising administering a thrombin

derivative peptide, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

- (1) a pharmaceutical composition comprising an implantable, biocompatible carrier and a thrombin derivative peptide; and
- (2) culturing chondrocytes in vitro in the presence of a thrombin derivative peptide and further administering the cultured chondrocytes to a cartilage repair or growth site.

ACTIVITY - Osteopathic; Antiarthritic.

MECHANISM OF ACTION - Non-proteolytic thrombin receptor agonist.

Young, male New Zealand rabbits (2-3 kg) (test) with defects in the trochlear groove of the femur were treated with **TP508** (RTM) (thrombin receptor agonist) (10 mg) formulated in polylactic acid/polyglycolic acid (**PLGA**) controlled release microspheres. The control rabbits received **PLGA** microspheres without **TP508** (RTM). After 9 weeks, the test rabbits exhibited a predominantly hyaline matrix with evidence of significant aggrecan content. The repair score for test/control rabbits were: 18.6 plus or minus 1.4/9.4 plus or minus 1.6 respectively.

USE - For stimulating bone growth and cartilage growth or repair in e.g. bone graft, segmental gap in a bone, bone void, at a non-union fracture, arthritic joints, and sites treated for cartilage damage or loss due to traumatic injury, and for culturing chondrocytes in vitro (claimed).

ADVANTAGE - The thrombin derivative peptide improves the quality of repair tissue, leads to more durable and functional restoration of joint bio mechanics, reduces the incidence of osteoarthritis in patients suffering from traumatic cartilage injuries and accelerates the rate of normal fracture healing in fracture or small gap defects.

Dwg.0/0

ACCESSION NUMBER: 2003-721552 [68] WPIDS  
DOC. NO. NON-CPI: N2003-576968  
DOC. NO. CPI: C2003-198446  
TITLE: Stimulation of bone growth and cartilage formation in e.g. bone graft and arthritic joints involves administration of a thrombin derivative peptide.  
DERWENT CLASS: A96 B04 C03 D16 D22 P34  
INVENTOR(S): BERGMANN, J; CARNEY, D H; CROWTHER, R S; REDIN, W R; SIMMONS, D J; STIERNBERG, J; YANG, J  
PATENT ASSIGNEE(S): (TEXA) UNIV TEXAS SYSTEM  
COUNTRY COUNT: 100  
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 2003061690	A1	20030731 (200368)*	EN	24	
RW:	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW				
W:	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW				

#### APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2003061690	A1	WO 2002-US1451	20020117

PRIORITY APPLN. INFO: WO 2002-US1451 20020117

L4 ANSWER 11 OF 11 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
TI Promoting cardiac tissue repair, stimulating revascularization,

stimulating vascular endothelial cell proliferation, and inhibiting vascular occlusion by using angiogenic thrombin derivative peptide.  
 AN 2002-179665 [23] WPIDS  
 AB WO 200204008 A UPAB: 20020411  
 NOVELTY - Promoting cardiac tissue repair or stimulating revascularization, stimulating vascular endothelial cell proliferation, inhibiting restenosis in a patient following balloon angioplasty, and for inhibiting vascular occlusion in a patient by administering an angiogenic thrombin derivative peptide (I) to cardiac tissue or blood vessels.  
 ACTIVITY - Vasotropic; cardiant.  
 (I) was tested for vasotropic and cardiant activity. Yucatan minipigs had toroid shaped ameroid occluders placed on their proximal left circumflex arteries. The ameroid imbibed water over time, causing constriction of the vessel. Occlusion was verified four weeks after surgery by contrast enhanced angiography. At that time, each animal's chest was reopened, where upon the region of ischemia was injected with a slow release formulation of **TP508** (100 micro l, i.e., **TP508**-containing poly(D,L-lactide-co-glycolide) (**PLGA**) microspheres, suspended in a Pluronic gel, into 10 sites (100 micro l/site) in the ischemic area. Controls received **PLGA** microspheres in Pluronic gel without **TP508**. Baseline, and post-treatment angiograms and echocardiograms were obtained. Indices for myocardial wall thickening and cardiac ejection fraction showed trends that **TP508** treated animals tolerated dobutamine-induced stress better than controls. After 3 weeks, the animals were evaluated with contrast enhanced echocardiography. Initial results on this limited number of animals demonstrated that **TP508** treated animals under dobutamine stress had a slightly larger increase in ejection fraction and better maintained wall thickening compared to controls. Thus, this treatment appears to help restore functionality to the ischemic heart muscle.  
 MECHANISM OF ACTION - Angiogenic proliferation and endothelial cells migration inducer.  
 USE - The method utilizing (I) is useful for promoting cardiac tissue repair, stimulating revascularization, stimulating vascular endothelial cell proliferation, inhibiting restenosis in a patient following balloon angioplasty, and for inhibiting vascular occlusion in a patient (claimed).  
 Dwg.0/3

ACCESSION NUMBER: 2002-179665 [23] WPIDS  
 DOC. NO. CPI: C2002-055805  
 TITLE: Promoting cardiac tissue repair, stimulating revascularization, stimulating vascular endothelial cell proliferation, and inhibiting vascular occlusion by using angiogenic thrombin derivative peptide.  
 DERWENT CLASS: B04 B07 D22  
 INVENTOR(S): CARNEY, D H  
 PATENT ASSIGNEE(S): (TEXA) UNIV TEXAS SYSTEM  
 COUNTRY COUNT: 97  
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 2002004008	A2	20020117 (200223)*	EN	24	
RW:	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW				
W:	AE AG AL AM AT AU AZ BA BB BG BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW				
AU 2001078907	A	20020121 (200234)			
US 2002061852	A1	20020523 (200239)			
EP 1253937	A2	20021106 (200281)	EN		
R:	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR				

US 2002187933 A1 20021212 (200301)  
 EP 1253937 B1 20030910 (200360) EN  
 R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR  
 DE 60100740 E 20031016 (200376)  
 CN 1455678 A 20031112 (200412)  
 JP 2004502739 W 20040129 (200413) 42

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2002004008	A2	WO 2001-US21944	20010712
AU 2001078907	A	AU 2001-78907	20010712
US 2002061852	A1 Provisional	US 2000-217583P	20000712
		US 2001-904090	20010712
EP 1253937	A2	EP 2001-957136	20010712
		WO 2001-US21944	20010712
US 2002187933	A1 Provisional	US 2000-217583P	20000712
	Cont of	US 2001-904090	20010712
		US 2002-50611	20020116
EP 1253937	B1	EP 2001-957136	20010712
		WO 2001-US21944	20010712
DE 60100740	E	DE 2001-600740	20010712
		EP 2001-957136	20010712
		WO 2001-US21944	20010712
CN 1455678	A	CN 2001-815458	20010712
JP 2004502739	W	WO 2001-US21944	20010712
		JP 2002-508462	20010712

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2001078907	A Based on	WO 2002004008
EP 1253937	A2 Based on	WO 2002004008
EP 1253937	B1 Based on	WO 2002004008
DE 60100740	E Based on	EP 1253937
	Based on	WO 2002004008
JP 2004502739	W Based on	WO 2002004008

PRIORITY APPLN. INFO: US 2000-217583P 20000712; US 2001-904090 20010712; US 2002-50611 20020116

=> s cartilage near TP508  
L5 0 CARTILAGE NEAR TP508

=> d his

(FILE 'HOME' ENTERED AT 16:46:15 ON 23 MAR 2004)

FILE 'MEDLINE, BIOSIS, DGENE, EMBASE, FSTA, JICST-EPLUS, BIOBUSINESS, USPATFULL, WPIDS' ENTERED AT 16:48:10 ON 23 MAR 2004

L1 0 S CARTILAGE ADJ2 PLGA  
L2 6544 S PLGA  
L3 56 S TP508  
L4 11 S L3 AND L2  
L5 0 S CARTILAGE NEAR TP508

=> s RGD adj cartilage  
L6 0 RGD ADJ CARTILAGE

=> s RGD  
L7 15193 RGD

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=> e cartilage/ct
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ADDITIONAL TERMS AVAILABLE BY USING "CARTILAGE+XUSE/CT"
'CT' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'DGENE'
E# FREQUENCY AT TERM
-- -----
E1      1      CARTILADE: DO, DRUG DOSE/CT
E2      1      CARTILADE: PD, PHARMACOLOGY/CT
E3      42001   47 --> CARTILAGE/CT
E4      1      CARTILAGE A1/CT
E5      1      CARTILAGE ABNORMALITY/CT
E6      1      CARTILAGE ACTIVITY/CT
E7      4      CARTILAGE AGGRECAN/CT
E8      9      CARTILAGE ALLOGRAFT/CT
E9      1      CARTILAGE AND BONE DISEASES/CT
E10     1      CARTILAGE AND BONE PREPARATION/CT
E11     1      CARTILAGE AND/OR BONE DEFECT/CT
E12     1      CARTILAGE ANGIOGENESIS INHIBITOR/CT
The indicated field code is not available for EXPAND in this
file. To see a list of valid EXPAND field codes, enter HELP
SFIELDS at an arrow prompt (=>).
```

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=> s e10
'CT' IS NOT A VALID FIELD CODE
'CT' IS NOT A VALID FIELD CODE
L8      1 "CARTILAGE AND BONE PREPARATION"/CT
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=> s e3
'CT' IS NOT A VALID FIELD CODE
'CT' IS NOT A VALID FIELD CODE
L9      42001 CARTILAGE/CT
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=> d his

(FILE 'HOME' ENTERED AT 16:46:15 ON 23 MAR 2004)

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FILE 'MEDLINE, BIOSIS, DGENE, EMBASE, FSTA, JICST-EPLUS, BIOBUSINESS,
USPATFULL, WPIDS' ENTERED AT 16:48:10 ON 23 MAR 2004
L1      0 S CARTILAGE ADJ2 PLGA
L2      6544 S PLGA
L3      56 S TP508
L4      11 S L3 AND L2
L5      0 S CARTILAGE NEAR TP508
L6      0 S RGD ADJ CARTILAGE
L7      15193 S RGD
          E CARTILAGE/CT
L8      1 S E10
L9      42001 S E3
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=> e TP508/cn
'CN' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'USPATFULL'
'CN' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'DGENE'
E# FREQUENCY AT TERM
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E1      0      2      TP40/CN
E2      2      TP5/CN
E3      18     --> TP508/CN
E4      1      TP53/CN
E5      0      2      TP53-TARGET GENE 5 PRODUCT/CN
E6      1      TP53AP1 PROTEIN, HUMAN/CN
E7      0      2      TP53BPL/CN
E8      8      TP53I3 PROTEIN, HUMAN/CN
E9      2      TP53INP1 PROTEIN, HUMAN/CN
```

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E10      0      1      TP53TG1 PROTEIN/CN
E11      0      2      TP53TG5 PROTEIN/CN
E12      0      2      TP5MEU/CN
The indicated field code is not available for EXPAND in this
file. To see a list of valid EXPAND field codes, enter HELP
SFIELDS at an arrow prompt (=>).
```

```
=> s e3
'CN' IS NOT A VALID FIELD CODE
'CN' IS NOT A VALID FIELD CODE
L10      18 TP508/CN
```

```
=> e3
E3 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).
```

```
=> e TP508/CT
'CT' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'BIOBUSINESS'
'CT' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'DGENE'
E#  FREQUENCY   AT    TERM
--  -----
E1      4      TP47/CT
E2      4      1      TP5/CT
E3      18     --> TP508/CT
E4      1      TP508 SYNTHETIC PEPTIDE/CT
E5      125    1      TP53/CT
E6      1      TP53 ACTIVATED FACTOR 1/CT
E7      1      TP53 BINDING MOTIF/CT
E8      1      TP53 DELETED CELL/CT
E9      1      TP53 DNA/CT
E10     1      TP53 EXON 8/CT
E11     138    2      TP53 GENE/CT
E12     1      TP53 GENE FRACTION/CT
The indicated field code is not available for EXPAND in this
file. To see a list of valid EXPAND field codes, enter HELP
SFIELDS at an arrow prompt (=>).
```

```
=> s E3
'CT' IS NOT A VALID FIELD CODE
'CT' IS NOT A VALID FIELD CODE
L11      18 TP508/CT
```

```
=> s cartilage growth or repair
L12      537456 CARTILAGE GROWTH OR REPAIR
```

```
=> e cartilage repair/CT
'CT' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'BIOBUSINESS'
'CT' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'DGENE'
E#  FREQUENCY   AT    TERM
--  -----
E1      11     CARTILAGE PROTEOGLYCANS/CT
E2      44     CARTILAGE REGENERATION/CT
E3      6      --> CARTILAGE REPAIR/CT
E4      1      CARTILAGE REPAIR TISSUE/CT
E5      1      CARTILAGE REPAIR-ENHANCING ACTIVITY/CT
E6      0      2      CARTILAGE RESORPTION/CT
E7      1      CARTILAGE RESORPTION ASSAY/CT
E8      1      CARTILAGE RESORPTION SITE/CT
E9      1      CARTILAGE RESURFACING TECHNIQUE/CT
E10     36     CARTILAGE RUPTURE/CT
E11     1      CARTILAGE RUPTURE: ET, ETIOLOGY/CT
E12     1      CARTILAGE RUPTURE: PC, PREVENTION/CT
```

The indicated field code is not available for EXPAND in this file. To see a list of valid EXPAND field codes, enter HELP SFIELDS at an arrow prompt (=>).

=> s cartilage regeneration  
L13 636 CARTILAGE REGENERATION

=> s l13 and TP508  
L14 2 L13 AND TP508

=> d l14 ti abs ibib tot

L14 ANSWER 1 OF 2 USPATFULL on STN  
TI Stimulation of cartilage growth with agonists of the non-proteolytically activated thrombin receptor  
AB Disclosed is a method of stimulating cartilage growth, repair or regeneration at a site in a subject in need of such growth, repair or regeneration. The method comprises the step of administering a therapeutically effective amount of an agonist of the non-proteolytically activated thrombin receptor to the site.

Also disclosed is a method of stimulating the proliferation and expansion of chondrocytes in vitro. The method comprises culturing chondrocytes in the presence of a stimulating amount of an NPAR agonist.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:344424 USPATFULL  
TITLE: Stimulation of cartilage growth with agonists of the non-proteolytically activated thrombin receptor  
INVENTOR(S): Carney, Darrell H., Dickinson, TX, UNITED STATES  
Crowther, Roger S., League City, TX, UNITED STATES  
Stiernberg, Janet, Paris, TX, UNITED STATES  
Bergmann, John, Galveston, TX, UNITED STATES  
PATENT ASSIGNEE(S): Univ. of Texas System, Board of Regents, Austin, TX, UNITED STATES, 78701 (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2002198154 A1 20021226  
APPLICATION INFO.: US 2002-50688 A1 20020116 (10)  
RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-909348, filed on 19 Jul 2001, PENDING

NUMBER DATE

PRIORITY INFORMATION: US 2000-219800P 20000720 (60)  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C., 530 VIRGINIA ROAD, P.O. BOX 9133, CONCORD, MA, 01742-9133  
NUMBER OF CLAIMS: 28  
EXEMPLARY CLAIM: 1  
LINE COUNT: 862  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 2 OF 2 USPATFULL on STN  
TI Stimulation of cartilage growth with agonists of the non-proteolytically activated thrombin receptor  
AB Disclosed is a method of stimulating cartilage growth, repair or regeneration at a site in a subject in need of such growth, repair or regeneration. The method comprises the step of administering a therapeutically effective amount of an agonist of the non-proteolytically activated thrombin receptor to the site.

Also disclosed is a method of stimulating the proliferation and expansion of chondrocytes in vitro. The method comprises culturing chondrocytes in the presence of a stimulating amount of an NPAR agonist.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:78716 USPATFULL  
TITLE: Stimulation of cartilage growth with agonists of the non-proteolytically activated thrombin receptor  
INVENTOR(S): Carney, Darrell H., Dickinson, TX, UNITED STATES  
Crowther, Roger S., League City, TX, UNITED STATES  
Stiernberg, Janet, Paris, TX, UNITED STATES  
Bergmann, John, Galveston, TX, UNITED STATES  
PATENT ASSIGNEE(S): The Board of Regents, The University of Texas System (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002042373	A1	20020411
APPLICATION INFO.:	US 2001-909348	A1	20010719 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-219800P	20000720 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Carolyn S. Elmore, HAMILTON, BROOK, SMITH & REYNOLDS, P.C., Two Militia Drive, Lexington, MA, 02421-4799	
NUMBER OF CLAIMS:	21	
EXEMPLARY CLAIM:	1	
LINE COUNT:	836	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.